UNAV
MULTI NAVIGATION

OEM-integrated Navigation System

UNAVI X1,X2

Owner's Manual

Contents

Thank you for using *UNAVI!*

Please read through these operating instructions so you will know how to operate your model properly.
After you have finished reading this instruction, keep this manual in a safe place for future reference.

NOTICE *UNAVI has a built-in user manual in an E-book format. Select "Owner's Manual" icon.*

⚠ WARNING

Do not attempt to install or service your display by yourself. Installation or servicing of the display by persons without training and experience in electronic equipment, car audio and automotive accessories may be dangerous and could expose you to the risk of electric shock or other hazards.

⚠ CAUTION

The user of this product is solely responsible for observing safe driving practices. Do not operate your UNAVI system while driving. Park the vehicle first. Do not use the navigation system or entertainment features if it presents a risk to you or any other person or if it is a distraction.

<< *Disclaimer*

>> For your safety, please do not operate this unit while driving. Be sure the vehicle is at a complete
stop and parked in a legal manner when the driver is operating this unit.

>> This navigation system should not be used in place of the driver`s own judgment.
Any route suggested made by this navigation system does not take into account, traffic conditions,
speed limits, road conditions, constructions, and etc. Disregard route suggestions made by the
navigation system if it suggests any illegal maneuvers or would place your vehicle and hazardous
situations.

>> All hardware and software belong to and are the property of E-Sense Technology, Inc. Duplication
and/or distribution or duplications of any copyrighted materials are illegal and may result to criminal
penalties and civil lawsuits. Any unauthorized attempts to access, upload or change any information
to defeat or circumvent security features may be subject to criminal penalties and civil lawsuits.
Utilization of this system for any other use than its intended purpose if progibited and may be subje-
ct to criminal penalties and civil lawsuits.

>> The advice provided by the navigation system is to be regarded only as a suggestion(s). There
may be situations where the navigation system displays the vehicle's location incorrectly, fails to
suggest the shortest course, and/or fails to direct you to your desired destination. In such situations,
rely on your own driving judgment, taking into account current driving conditions.

1. INTRO

<< *Disclaimer*

>> Do not use the navigation system to route you to emergency services. The database does not contain a complete listing of locations of emergency service providers such as police, fire stations, hospitals and clinics. Please use your judgment and your ability to ask for directions in these situations.

>> As a driver you are solely responsible for your road safety.

>> In order to avoid a traffic accident or traffic offense, remember that actual road conditions and traffic regulations take precedence over the information contained in the navigation system.

>> Accordingly, the software may contain inaccurate or incomplete information due to the passage of time, changing circumstances, and due to the nature of the sources used. Please observe the actual traffic circumstances and regulations at all times while driving.

>> The navigation system does not provide, or account for in any way; information regarding traffic and road laws; vehicle specifications including weight, height, width, load, and/or speed restrictions; road conditions including road slope, grade, and/or surface conditions; obstruction information including bridge and tunnel height and width, and/or other prevailing driving and/or road conditions. Always rely on your own driving judgment, taking into account current driving conditions.

1. INTRO

<< *Disclaimer*

>> Minimize the amount of time spent viewing the screen while driving.

>> Do not cover up product with a towel or cloth-like material (Increased internal temperature may cause product malfunction or lead to fire hazard).

>> Storing this product in a humid or dusty location may result in product malfunction or failure.

>> Normal operating temperature is between 32 degrees Fand 113 degrees F. Operating this system outside of the operating tempserature can cause the system to malfunction.

>> This product must be used only with manufacturer's approved parts and accessories. If not, any warranty claims can be denied.

>> Ideal operating voltage of this system is 12 volts.

>> The touch screen responds best to a light touch from the pad of your finger. Using excessive force or placing any metallic objects near the touch screen may damage the tempered glass surface and will void your warranty.

1. INTRO

<< *Disclaimer*

>> During installation, please make sure the vent holes are not obstructed as it may lead to product malfunction.

>> The MUTE function will only work with the system's built-in speaker. It can take up to 3 seconds for the sound to reappear after MUTE is turned off.

>> If your unit is trying to acquire satellites for the first time, it may take longer than normal to establish an initial position. If the unit is powered on and outdoors with a clear view of the sky this should not take more than 5-10 minutes.

>> If the vehicle is left non-operational for more an extended period of time, the GPS memory data have been drained and will require at least 15 minutes of warming up to function properly.

>> Atmospheric conditions such as rain and fog can cause the GPS signal to fail. Driving inside tunnels, in between tall buildings, and highly populated areas can also interfere with and diminish GPS signal reception. If your vehicle has a protective UV coating on its windshield and has any electronic devices that require satellite signals, it may prevent your GPS to operate properly.

>> Photos are non-binding. The manufacturer and importer do not take responsibility for any printing errors.

<< *Disclaimer*

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>> Any other trademarksand commercial names belong to and are the property of their respective owners.

>> UNAVI and any of its distributors are not responsivle for any accidents pertaining to the misuse of this product during inappropriate times.

>> The trademark and the UNAVI® logo are owned by the E-sense technology Inc.

<< *Components*

FRONT

Control Box

SD Card slot   Reset

USB host

BACK

②

①

① Main cable connector
② Control box connector

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2. COMPONENTS

<< *Components*

UNAVI	External Speaker	Control Box	SD Card Reader
Control Box Cable	GPS Antenna	Main Cable	SD card

3. NAVIGATION

<< *Using The Navigation*

Under the Main Menu, please click on the <u>NAVIGATION</u> icon (For detailed navigation usage instructions, please refer to the navigation user manual)

[Steps] Navigation menu > Select Destination

4. CLOCK

<< Clock

Press on the desired menu icon to access the application program

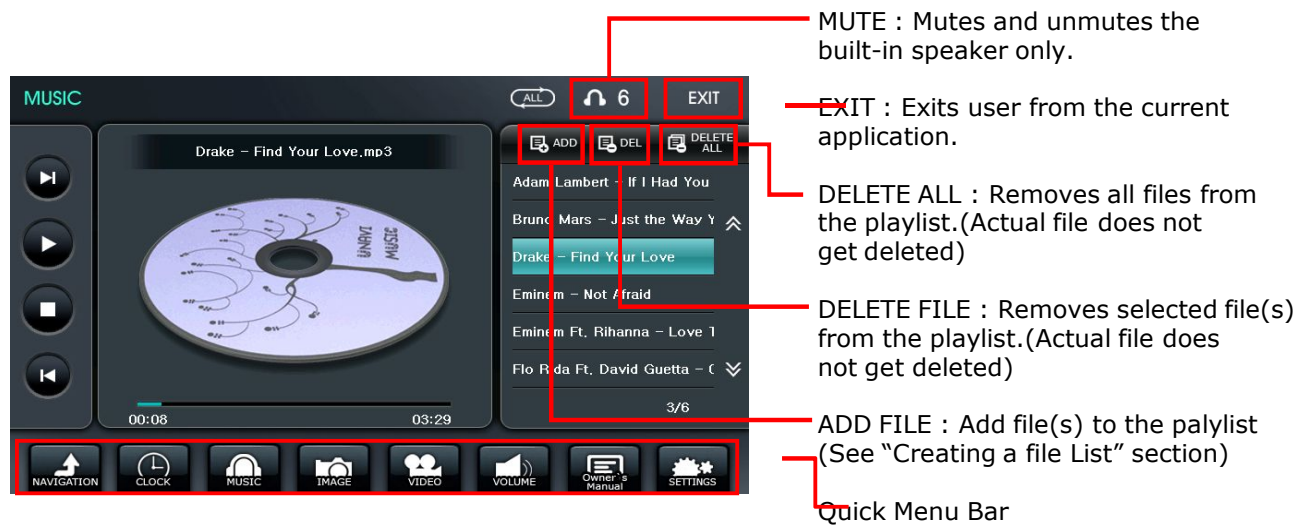
Tap screen to return to the main menu.

5. MUSIC

<< *Music*

Press on the desired menu icon to access
the application program

<< *Music*

MUTE : Mutes and unmutes the built-in speaker only.

EXIT : Exits user from the current application.

DELETE ALL : Removes all files from the playlist.(Actual file does not get deleted)

DELETE FILE : Removes selected file(s) from the playlist.(Actual file does not get deleted)

ADD FILE : Add file(s) to the palylist (See "Creating a file List" section)

Quick Menu Bar

5. MUSIC

<< Music

<< *Creating A File List*

1. Click ADD
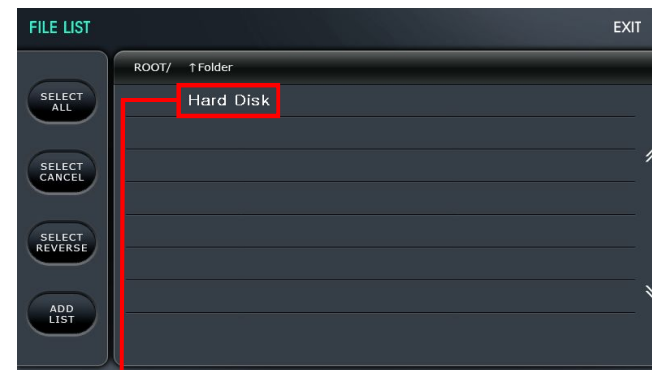
2. Double click on any discovered storage devices.
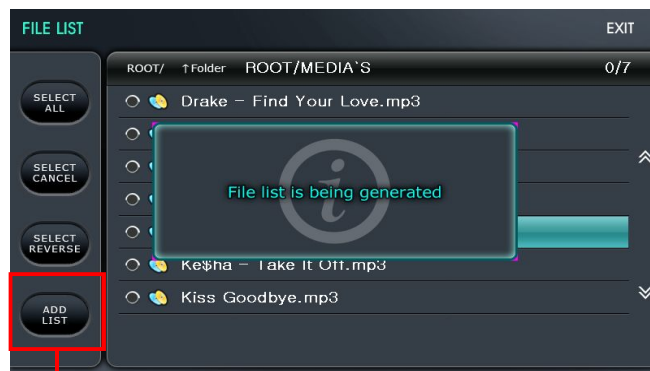
<< Creating A File List

3. Double click the folder to display the files you wish to play.
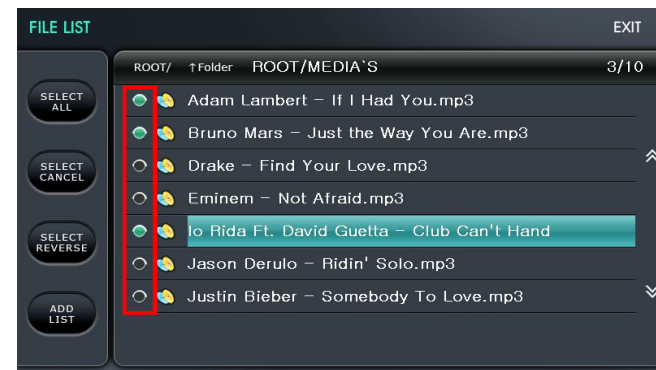
4. Select the file(s) you wish to add to the File List.

5. MUSIC

<< *Creating A File List*
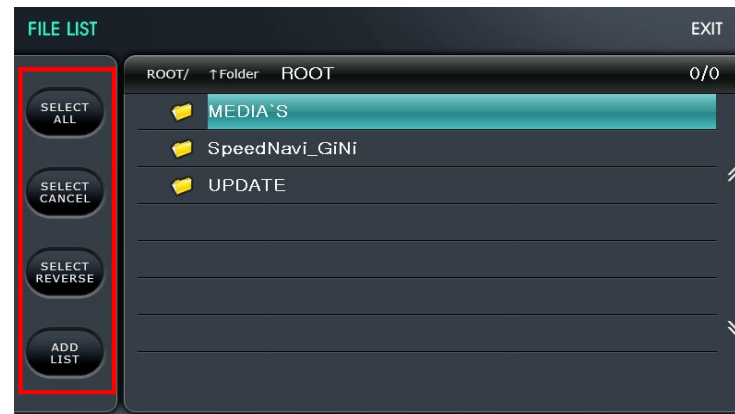

5. Click ADD LIST to generate previously
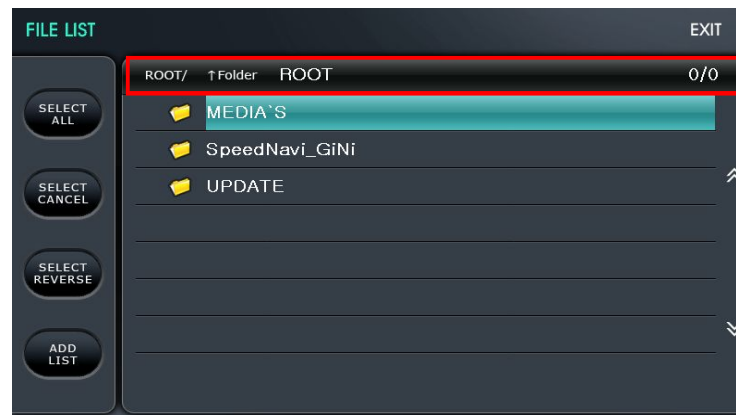   selected files.

6. Click EXIT.

<< *Creating A File List*

1. SELECT ALL
-Selects all files in the list.

2. SELECT CANCEL
-Deselects file(s).

3. SELECT RRVERSE
-Unselected file(s) are selected.

4. ADD LIST
-Adds selected file(s) to the playlist.

5. MUSIC

<< Creating A File List

ROOT/
-Redirects user to the root directory.

FOLDER
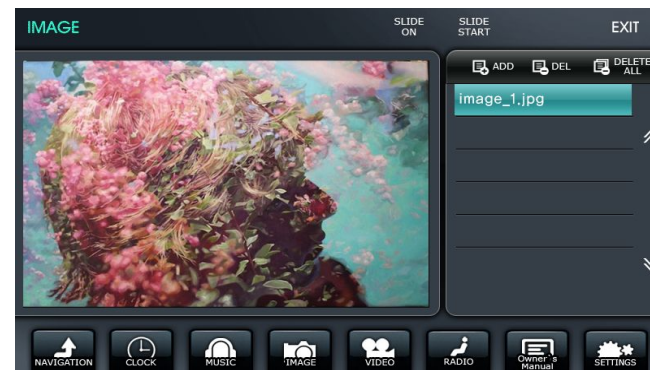-Redirects user to the upper directory
 /folder

0/0
File Number - Displays the current number
of selected files out of the total number
of files in the list.

6. IMAGE

<< *Image*

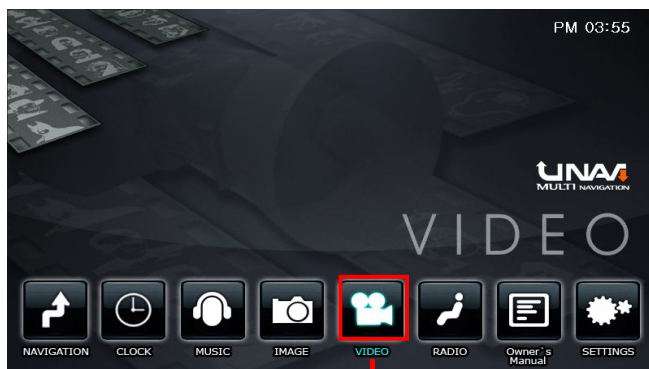Press on the desired menu icon to access
the application program

6. IMAGE

<< Image

SLIDE ON : Turns the slideshow feature On and OFF.

SLIDE START : Begins slideshow.

EXIT : Exits user form the current application.

DELETE ALL : Removes all files from the playlist.(Actual file does not get deleted)

DELETE FILE : Removes selected file(s) from the playlist.(Actual file does not get deleted)

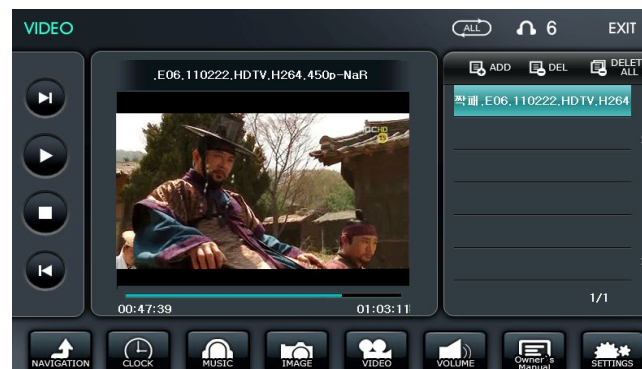ADD FILE : Add file(s) to the palylist (See "Creating a File list" section)

Quick Menu Bar

<< *Video*

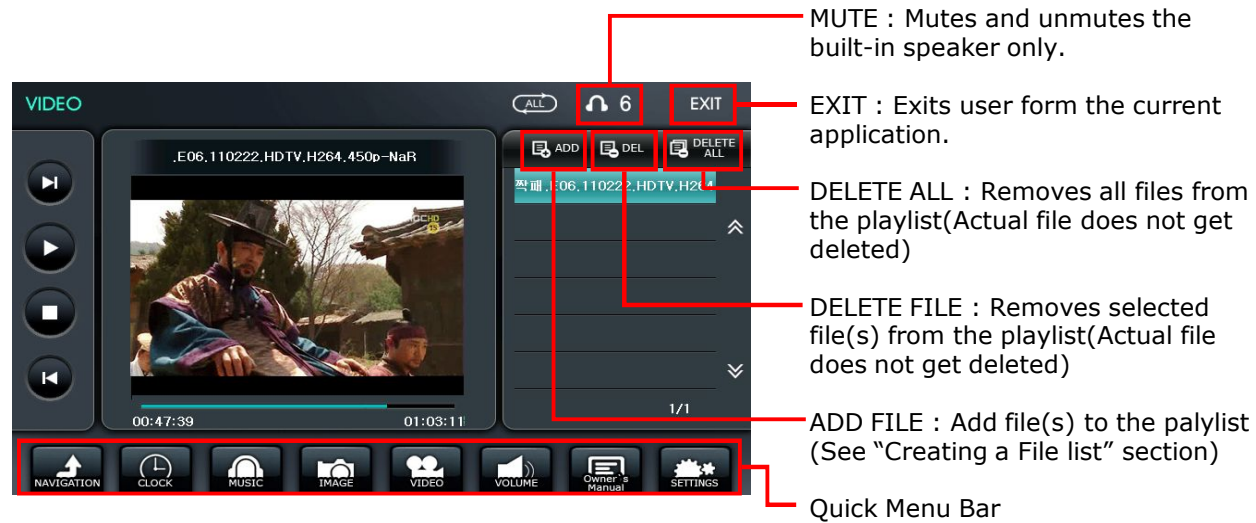Press on the desired menu icon to access
the application program

Some video files cannot be played due to codec compativility
issues and may cause system error.

Movie player will not work with Navigation due to safety
concerns and to maintatin operating system stability.
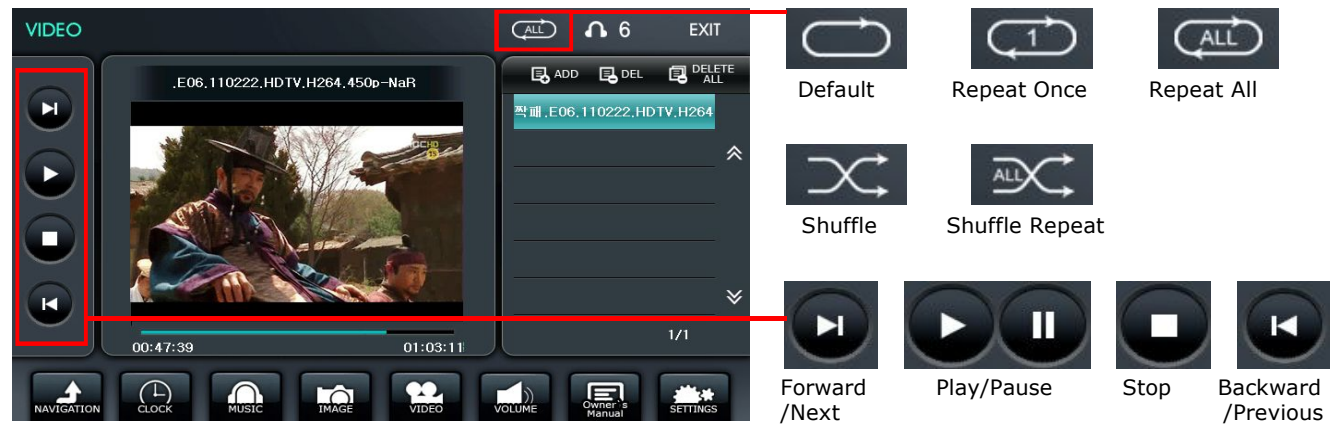
Supports D1 Video Quality (720 X 480 resolution)

<< *Video*

MUTE : Mutes and unmutes the
built-in speaker only.

EXIT : Exits user form the current
application.

DELETE ALL : Removes all files from
the playlist(Actual file does not get
deleted)

DELETE FILE : Removes selected
file(s) from the playlist(Actual file
does not get deleted)

ADD FILE : Add file(s) to the palylist
(See "Creating a File list" section)

Quick Menu Bar

7. VIDEO

<< *Video*

Default	Repeat Once Repeat All
Shuffle	Shuffle Repeat
Forward /Next	Play/Pause Stop Backward /Previous

<< *Trip*

Press on the desired menu icon to access the application program

Trip program(also referred to as the Radio screen)

<< *Trip*

SONATA 1CDP audio

Tap screen to return
to the main menu

Radio screen timer control
(3,5,7 seconds or Always)

SONATA 6CDC audio

Tap screen to return
to the main menu

Radio screen timer control
(3,5,7 seconds or Always)

ELANTRA

Tap screen to return
to the main menu

Radio screen timer control
(3,5,7 seconds or Always)

TUCSON

Tap screen to return
to the main menu

Radio screen timer control
(3,5,7 seconds or Always)

<< Trip

AZERA

Radio screen timer control
(3,5,7 seconds or Always)

Tap screen to return
to the main menu

OPTIMA

Radio screen timer control
(3,5,7 seconds or Always)

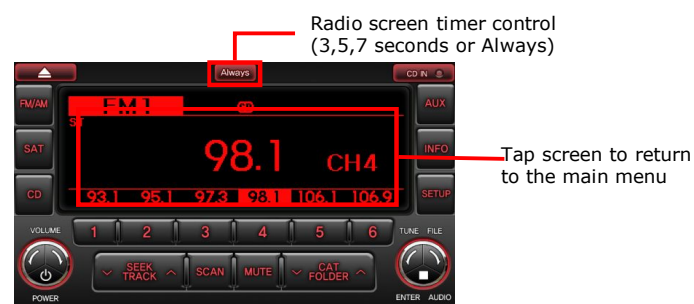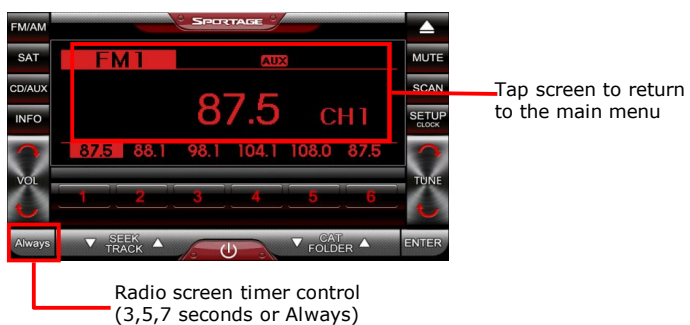Tap screen to return
to the main menu

SPORTAGE

Tap screen to return
to the main menu

Radio screen timer control
(3,5,7 seconds or Always)

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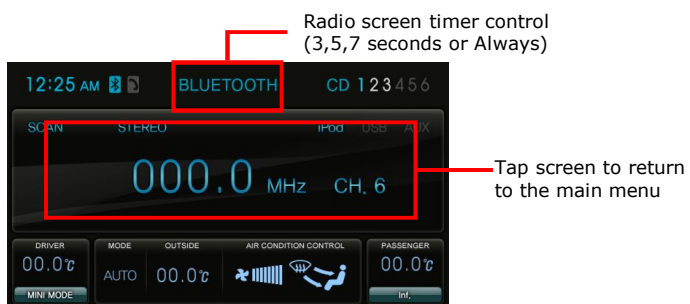
<< *Bluetooth Phone Pairing*

WARNING
Vehicle must be parked to complete the phone pairing process. Not all mobile phones are
compatible with the car manufacturer`s *Bluetooth* system. Please visit the car manufacturer`s website
for a list of compatible phones tested to work with their *Bluetooth* system.

1. Enable *Bluetooth* on your phone.
2. Push the SETUP button.
3. Select "PHONE" using the TUNE button, then press ENTER to Select.
4. Select "PAIR PHONE" using the TUNE button, then press ENTER to select.
5. Say the name of your phone when prompted(Use any name to uniquely describe your phone).
6. After *Bluetooth* system repeats the name you stated, say "Yes" to confirm.
7. The passkey "0000" will display on the audio screen.
   Select('NAME OF CAR')on the *Bluetooth* device list on your mobile phone and input passkey.
   Continue pairing.
8. After pairing if completed, your phone may transfer phone/contact list to the audio system.(This process may
   take a few minutes depending on the phone model and number of entries in the phone.contact list.)

<< *Aux*
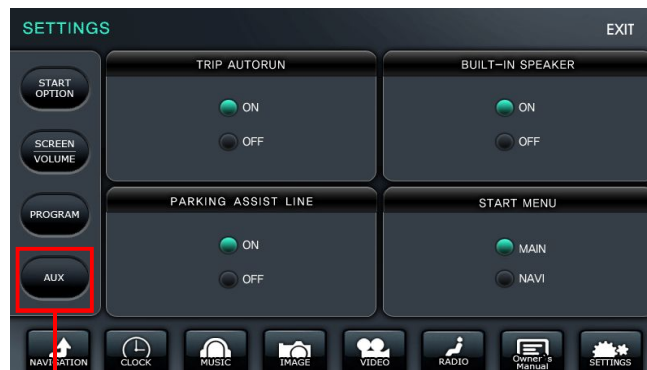
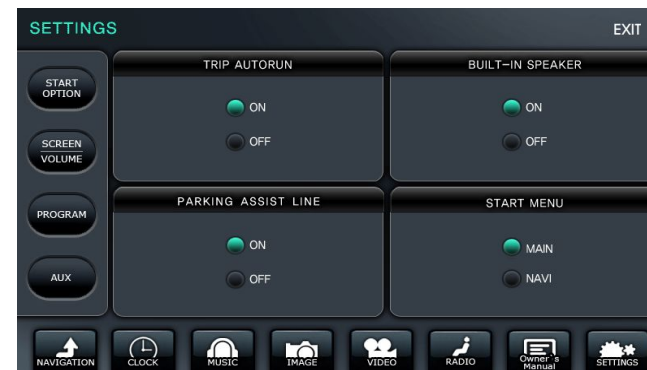Press on the desired menu icon to access the application program

This Mode will allow you to view/play external sources that are connected to the A/V input cable such as a DVD player and game consoles.
(Tap screen to return to the main menu)

<< Settings

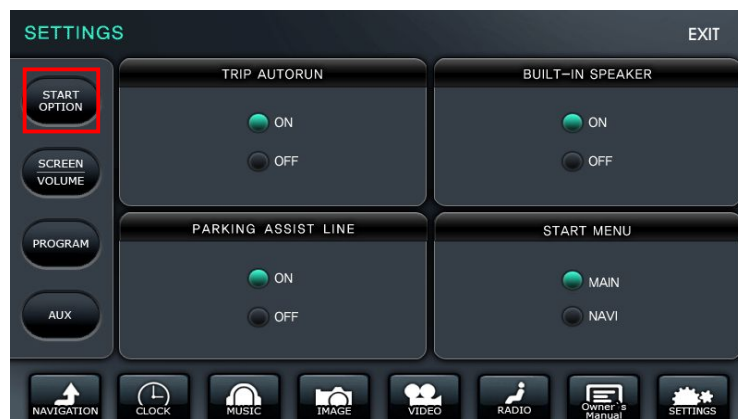Press on the desired menu icon to access
the application program

<< Start Option

TRIP AUTORUN
 -When turned ON, the system will automatically
  execute the Trip program.

BUILT-IN SPEAKER
 -When turnde ON, the system will enable sound
  output through the built-in speakers.

PARKING ASSIST LINE
 -When turned ON, rear-parking assist line will
  display with the rearview camera activated.

START MENU
 -Choose the default program menu to
   launch on system startup.

<< *Screen/Volume*

SCREEN BRIGHTNESS
 -Adjusts overall brightness of the LCD screen.

DAY/NIGHT MODE AUTO CHAGE
 -When turned ON, LCD will auto-adjust the
  display settings.

BUILT-IN SPEAKER VOLUME
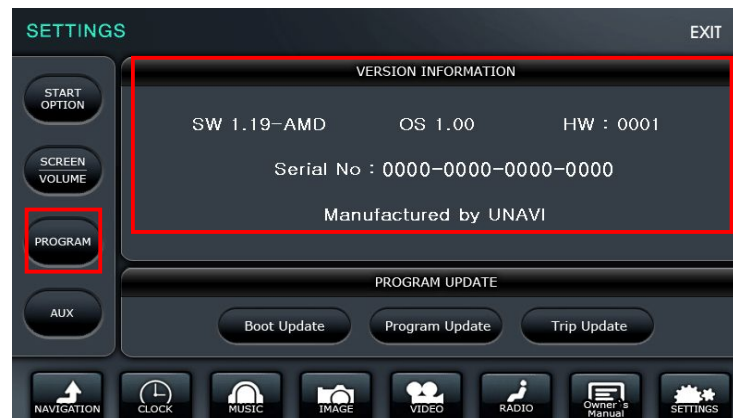-Adjusts volume level of the system sound output.

TOUCH ADJUSTMENT
 -Backlight OFF: Press to turn backlight ON/OFF
 -Calibrate: Press to calibrate touch screen
             sensitivity.

10. SETTINGS

<< Program

Displays current program version infomation

Boot Update
-Executes the startup splash screen update.

Program Update
-Executes software program update.

Trip Update
-Executes Trip program update.

<< *Customizing The Splash Screen*

To change the boot image(or splash screen logo) at startup, select and prepare an image file with the following format:
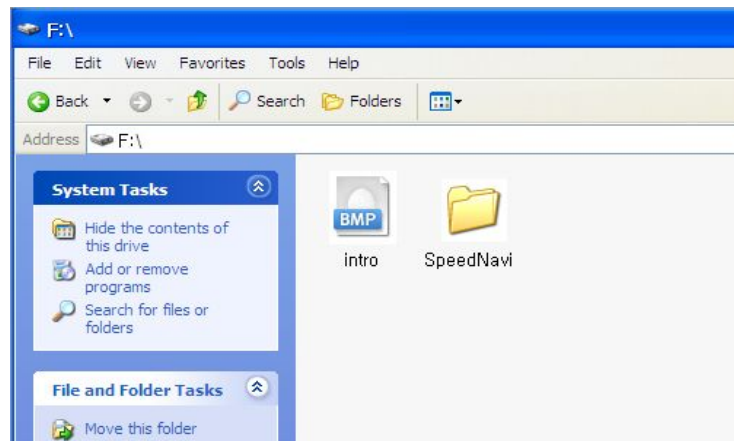
Image Size :   800x480
Image Format : 24-bit BMP
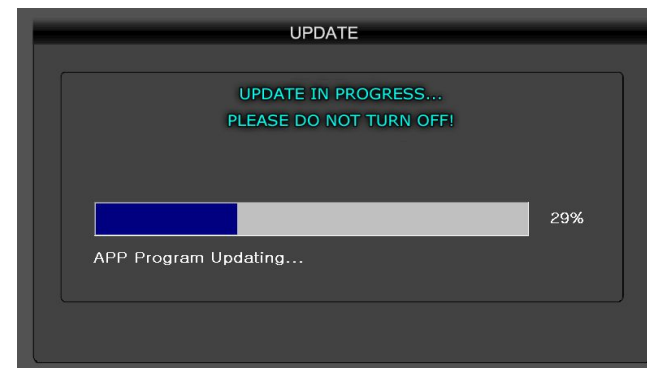Filename & Extension: "intro.bmp"

<< *Customizing The Splash Screen*

Drag and drop the selected image(BMP) file to the main directory of the SD_CARD.

<< *How To Change The Intro Image*

Insert the SD card into the SD card reader and start up the system.
From the main menu, go to "SETTING" >
Press "PROGRAM" > Press "Boot Update".

Upon completion of the update, system will reboot automatically and will chage the boot image.

<< *Update & Warranty*

Firmware Update Procedure

1) Remove SD Card from the control box (usually located inside the glove compartment).
2) Visit www.unavi-usa.com to download and decompress the designated update file.
3) Once the update file has been decompressed and extracted, an UPDATE folder and UpdateProgram.exe file will appear. Copy these files directly into the SD Card's root directory.
4) Insert the SD Card back into the control box.
5) From the Main Menu, press: SETTINGS > PROGRAM > Program Update.
6) System will automatically restart if the update is successful.
7) Check if "X1_SD_FLASH" or "X2_SD_FLASH" text appears on the upper left corner of the boot-up screen to ensure normal booting.

Map Update Procedure

Please visit www.unavi-usa.com for detailed information.

Warranty Period Extension

Please visit www.unavi-usa.com to purchase your extended warranty period desired.

<< *Specification*

General	Rated power source : DC 12V Storage temperature range : -20℃ to 60℃
Display	Screen size : 7.0 inch wide (UNAVI X1) 8.0 inch wide (UNAVI X2) Resolution : 800 x 480 pixels
GPS	Signal : L1 Frequency(1575.42MHz) Channels : 20 Parellel channels Location determination range : under 25M (without SA)
S/W	OS : WinCE
Decoding Format	Movie : AVI Music : MP3 Image : JPG, BMP

<< *Troubleshooting*

To set time	1. There is no need to set up the clock manually as UNAVI is linked to the GPS signal. 2. Check to see there is GPS signal reception 3. Re-install program to resolve possible program errors 4. Otherwise, some vehicle models may require the user to manually configure the clock displayed on the audio screen by going into the SETUP menu.
Bluetooth setup *(instructions may vary depending on the vehicle model)*	Press SETUP > Select PHONE or *Bluetooth* using the TUNE buttons (for complete instructions, please refer to the factory Owner's Manual or the built-in eBook manual.
System does not go past the boot-up screen	Please visit www.unavi-usa.com to download the NK.bin file from our "Service & Support" section
System does not boot up	1. Check that power cables are properly connected 2. Reboot the system using the Reset button located on the SD Card control box
Critical error message displays and fails to initialize	1. Check to see the SD Card is properly inserted 2. Re-install the program and map files
MS Windows OS screen is displayed	This is a result of the program files being deleted from memory and require program re-installation
Broken image display	1. Broken images in the map screen indicate corrupt map files. Please update the map files. 2. Broken images in non-map screens indicate corrupt program files and require program re-installation.

<< *Troubleshooting*

GPS abruptly stops	1. This may be due to surrounding obstructions to the GPS signal, such as bridges, tunnels, underground parking structures, and buildings. 2. Check to see that there are no electronic devices near the GPS antenna. 3. Check to see that the GPS antenna is mounted in non-obstructive locations and properly connected to the UNAVI unit.
Touch screen is non-responsive	Please check to see the LCD is not being pressed on by the housing cover
There is no sound	1. Check proper audio output set up under the menu option. 2. Check to see the mute key is not selected.
Route selection fails or takes too long	1. Double check and select point of departure, waypoint, destination, and search options. 2. Confirm that waypoint and destination addresses are valid. 3. Not all areas may have been covered and updated by the GPS map provider.
Navigation instructions differ from current road conditions	1. This may be due to changes in road conditions or during lane changes. 2. Download the latest map update as the existing map data may be outdated.

If the above measures do not resolve your trouble shooting questions, please contact your local UNAVI distributor or visit us on the web at www.unavi-usa.com.

<< *Problems During Operation*

-GPS signal reception is too slow
If the vehicle has been inoperative for an extended period of time, the GPS memory data may have been drained and will require at least 15 minutes of "getting a fix" to acquire satellite signal. GPS positioning is limited by weather (bad cloud cover, rain, fog) and usage location (tall buildings, tunnels, underpasses, trees, bridges).

-USB memory device not recognized
In many cases, the reason why the USB flash drive doesn't work is because it is in a manufacturer-based format that is not compatible with the UNAVI system. If possible, it is recommended to use a commonly known brand USB flash drive with at least 16 GB of memory.

-Navigation system is not working
Check if the SD Card is inserted properly in the control box. It can also be affected by a missing or corrupted data file in the SD Card. After diagnosing the problem, please reload the map update files ("SpeedNavi" folder) by obtaining it from a proper source.

-Backup camera does not appear on screen or displays static noise
Typically caused by a faulty wiring or the backup camera device itself. If the problem arose during the initial installation, we recommend testing different camera products as incompatibility issue may be apparent.

MEMO

UNAVI
MULTI NAVIGATION